

CLAIMS

What is claimed is:

- 1 1. A communication system operative over a common medium, the system comprising:
- 2 a. a plurality of transceivers, each transceiver comprising:
- 3 (1) a resonant circuit;
- 4 (2) an antenna coupled to the resonant circuit;
- 5 (3) a transmitter; and
- 6 (4) a receiver; and
- 7 b. a monitor comprising:
- 8 (1) a first transmitter;
- 9 (2) a first receiver; and
- 10 (3) a processor that performs a method comprising:
- 11 transmitting into the medium from the first transmitter a first frequency for a first
- 12 duration;
- 13 after lapse of the first duration, receiving via the first receiver a response signal from the
- 14 medium from at least one of the resonant circuits;
- 15 determining a second frequency from the received response signal; and
- 16 performing transceiver communication via the medium using the second frequency.